



## Batteries for Electrical Energy Storage in Transportation (BEEST)

ARPA-E seeks to develop a new generation of ultra-high energy density, low-cost battery technologies for long electric range plug in hybrid electric vehicles and electric vehicles (EVs).

The development of high energy, low cost batteries represents the critical barrier to wide-spread deployment of EVs, which if achieved would have a profound impact on U.S. oil security, greenhouse gas emissions, and economic growth.

The ambitious goals for this program are largely based upon the aggressive long-term EV battery goals set forth by the United States Advanced Battery Consortium, a public-private collaboration between the U.S. Department of Energy and leading U.S. automotive companies.

If successful, new battery technologies developed under this program will give electrified light-duty vehicles range, performance, lifetime, and cost required to shift transportation energy from oil to the domestically powered U.S. electric grid. ARPA-E's objective is to fund high-risk, high reward research efforts that will promote leadership in this emerging EV battery market.

### Timeline

- Secretary Steven Chu announced the funding opportunity on December 7, 2009.
- Vice President Biden announced the award selections on April 29, 2010.

### Project stats

- 10 projects, totaling \$36.3 Million
- Complete descriptions can be found at:  
<http://arpa-e.energy.gov/ProgramsProjects/BEEST.aspx>

### Program Director

- Dr. David Danielson

